

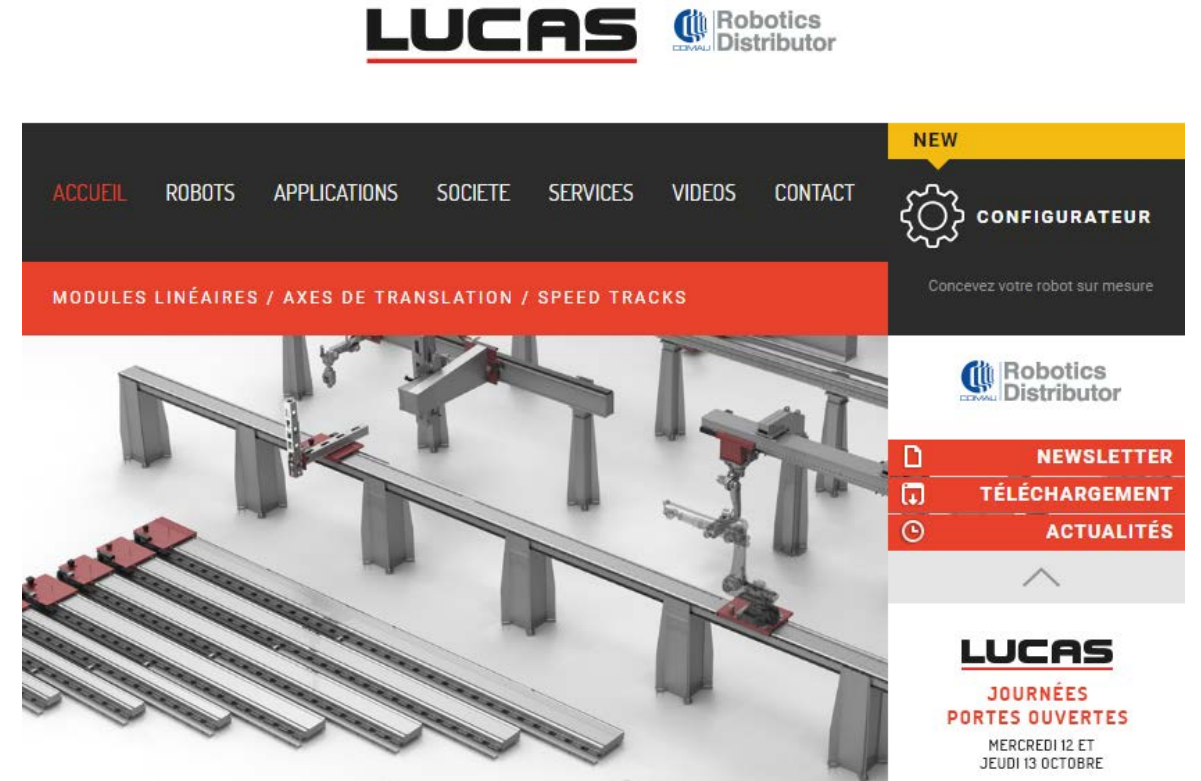
# Presentation of the LUCAS online configurator

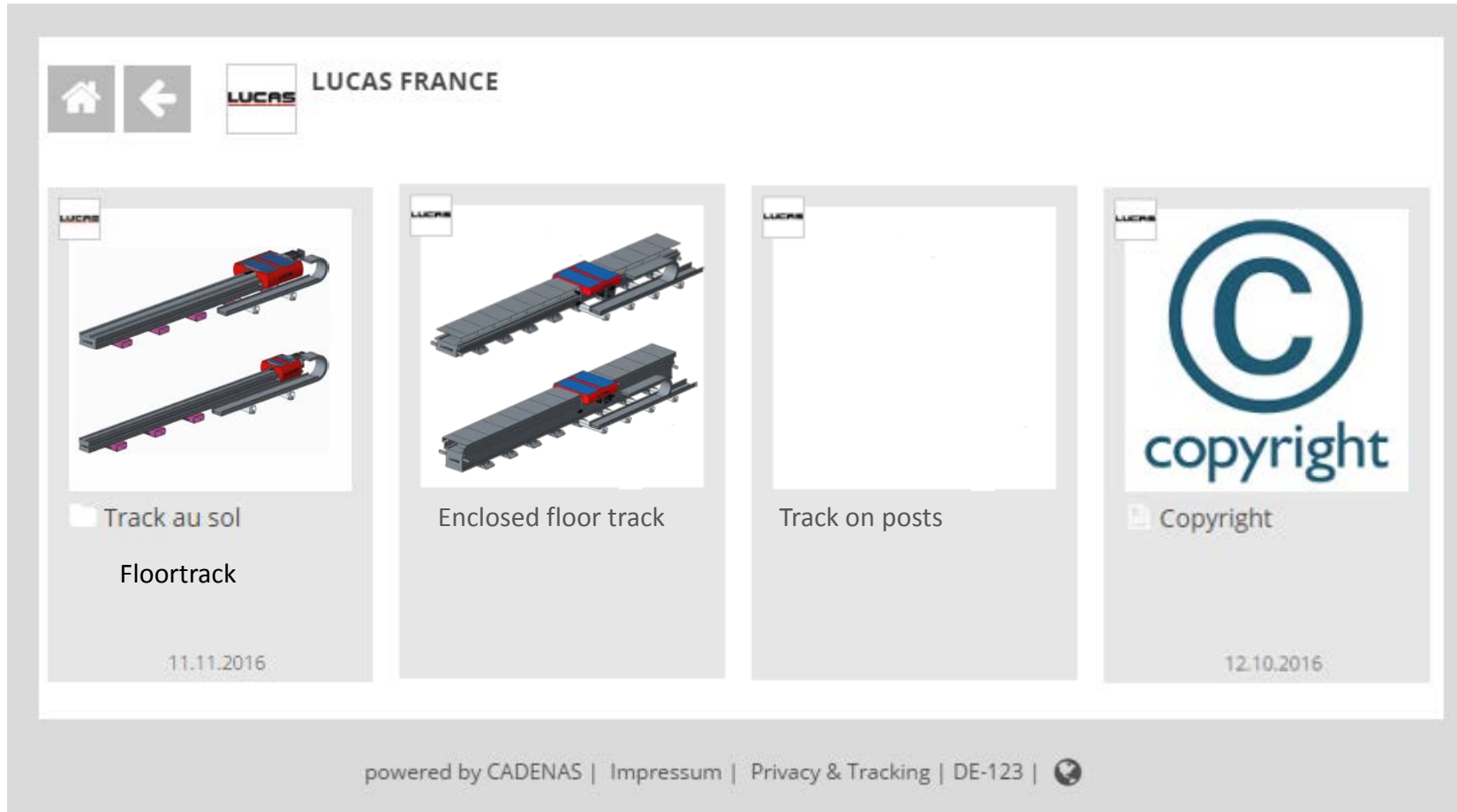
**LUCAS**

 Robotics  
Distributor

# General overview

- The configurator is a modern, visual **marketing tool**, presented as a **digital catalogue**.
- It is directly accessible on the LUCAS website, so that clients can use it **autonomously** and configure a LUCAS system to suit their **needs** and preferences.
- Once configuration is complete, the client has the option of downloading a **3D model** of the system to insert in the intended working location. **Technical specifications** may also be downloaded to check the technical characteristics of the product, its effective dimensions, and a full parts list of components.



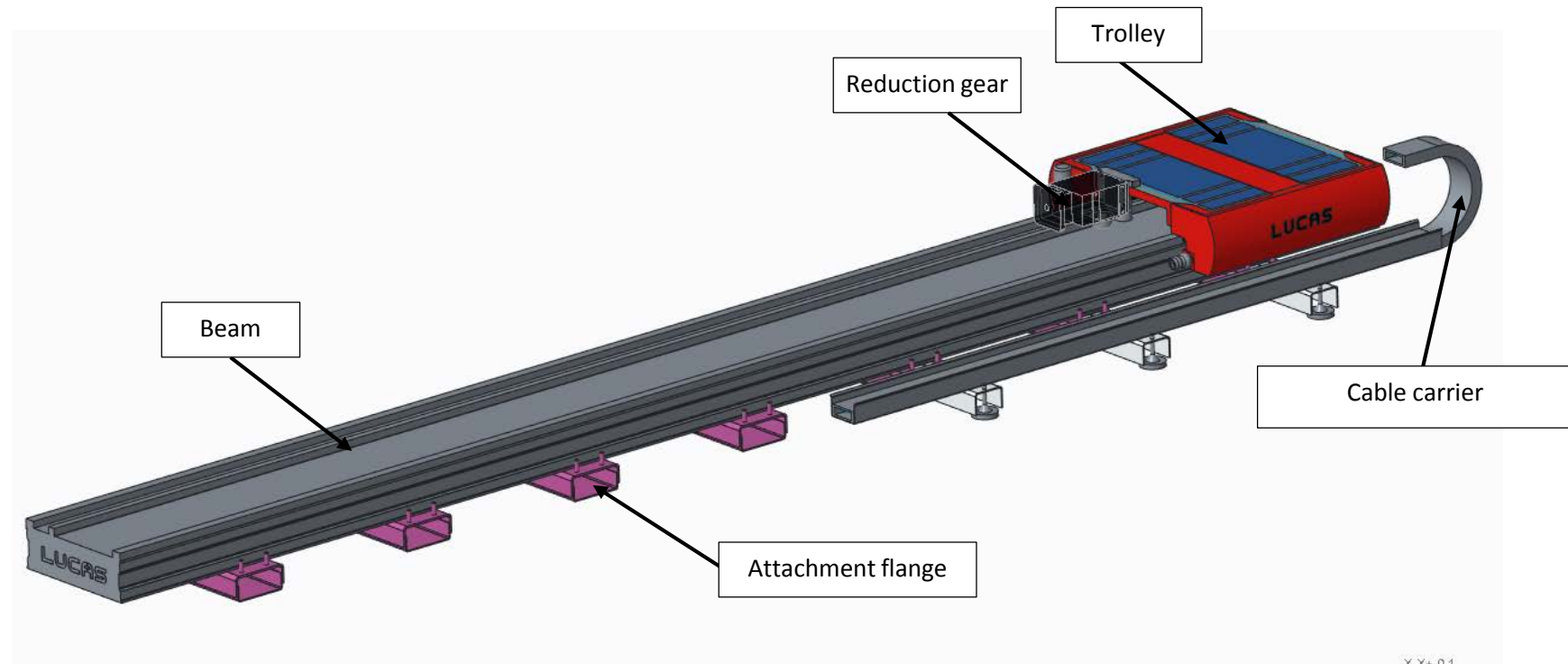


The first page of the configurator shows all the products in the LUCAS range of robotic axes.

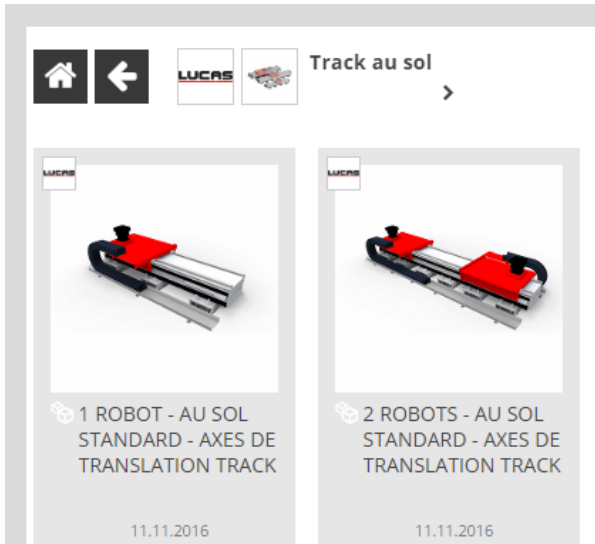
Customers just click to choose the product that best meets their needs!

# 1<sup>st</sup> choice: Floor track

First standard product in the LUCAS range of linear axes.



3D model to be updated



## Configuration page where you can:

- Select parameters from a predefined list;
- Modify values by moving a cursor;
- Enter a gross value;
- Check an option.

LUCAS - AXES DE TRANSLATION TRACK - 1 ROBOT - AU SOL STANDARD - L=5500 mm - ROBOT=COMAU - SIX - DEPV/DEPH= 0/0 - POSCHAI=R1 - PRECCREM=0.1 - ENTRAXEPIED=500 - BC=125 - VITRED=0.5

Produit(s) sélectionnable(s): 1

LUCAS - AXES DE TRANSLATION TRACK - 1 ROBOT - AU SOL STANDARD - L=5500 mm - ROBOT=COMAU - SIX - DEPV/DEPH= 0/0 - POSCHAI=R1 - PRECCREM=0.1 - ENTRAXEPIED=500 - BC=125 - VITRE D=0.5

FAB Fabricants	COMAU	ABB	FANUC		
ROBOTS Choix du robot	SIX				
DEPCHAISEV Déport de la chaise verticale	0	1 500		mm	
DEPCHAISEH Déport de la chaise horizontale	0.0			mm	
CATEGORIE Catégorie	Catégorie 2				
INFORMATION Information configuration robot	Configuration possible.				
POSCHAI	Avant - Droite	Arrière - Droite	Avant - Gauche		

3D





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## Configuration process











**LUCAS - AXES DE TRANSLATION TRACK - 1 ROBOT - AU SOL STANDARD - L=5500 mm - ROBOT=COMAU - SIX - DEPV/DEPH= 0/0 - POSCHAI=R1 - PRECCREM=0.1 - ENTRAXEPIED=500 - BC=125 - VITRED=0.5**

>

Produit(s) sélectionnable(s): 1


**LUCAS - AXES DE TRANSLATION TRACK - 1 ROBOT - AU SOL STANDARD**

Manufacturer				
	<p>← 1/2 →</p>			
Robot	<input type="text" value="SIX"/>			

- Choose from the leading robot manufacturers, including: COMAU, ABB, FANUC, KUKA, YASKAWA, STÄUBLI, etc.
- Select a robot from the list.

Minimum category for the robot selected: Category 2

Category 1   **Category 2**   Category 3   Category 4   Category 5   Category 6

← 1/2 →

Robot support surface (SS) height required: 490 950 1990 mm

Min extension: 250 mm

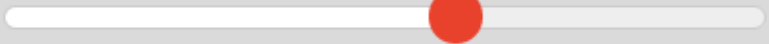
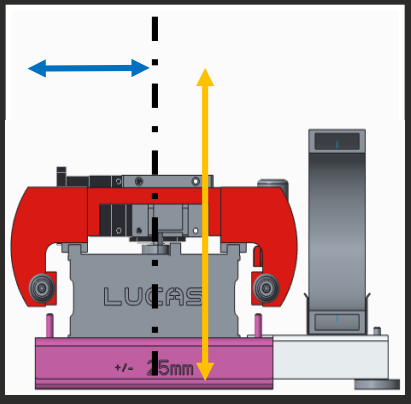

950

- Depending on the robot selected, the configurator displays the track category suited to the dimensions and guiding of the robot on its trolley.
- The minimum category by default is displayed in a red box. It is, however, possible to choose a higher category, provided it is not shaded in grey.
- The minimum height of the robot support surface depends directly on the category selected and the maximum value is 1500 mm higher. For categories:
  - 1 - 3: min h = 490 mm, max h = 1990 mm
  - 4 - 5: h = 512 mm, max h = 2012 mm
  - 6 - 9: h = 516 mm, max h = 2016 mm



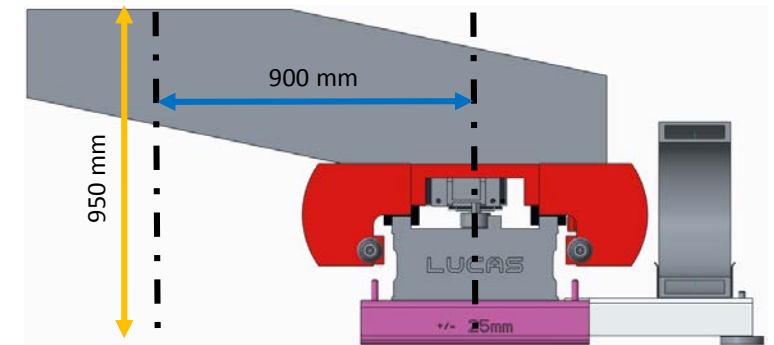
- LUCAS production does not manage extension heights under 250 mm. If the value entered is between the minimum height and **minimum height + 250mm**, the configurator will show the nearest possible height.



Horizontal offset required <i>Min SS height: 250 mm</i>	<input type="text" value="0"/> <input type="text" value="900"/> <input type="text" value="1 500"/>  <input type="text" value="900"/> mm
	 <ul style="list-style-type: none"> <li>The height of the robot support surface is measured from the surface to which the track is attached.</li> </ul>
Minimum category associated with the offset entered	<input type="text" value="Category 3"/> mm
Dimensions of robot footprint (W x L)	<input type="text" value="790 x 840"/> mm

- Horizontal offset is possible when the robot support surface height is above: minimum value + 250mm
- The category is redefined according to the extension piece considered.

Extension piece linked to the example configured





**Bellows (non-walkable)** YES OUI  NO NON

**Cable carrier width** 120.0 mm

**Cable carrier position**

RS AH SOR

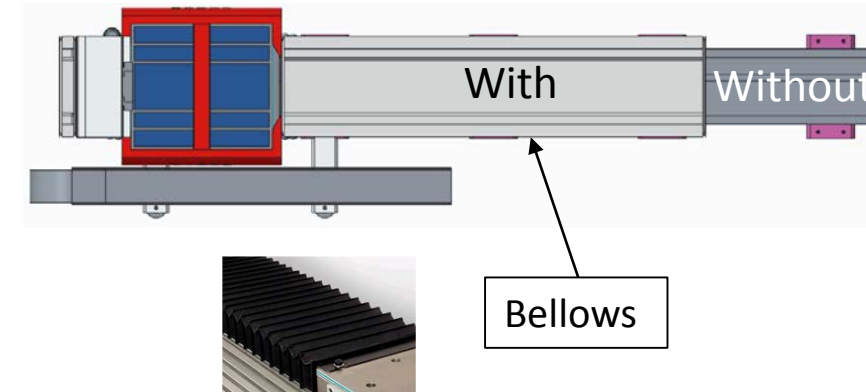
RS: Rack Side  
AH: Above Housing  
SOR: Side Opposite Rack



- There is a limited choice of CC positions and widths. These choices may be input in any order.

	CC width			CC position			Restriction
	120	170	220	RS	SOR		
Categories 1 - 5	120	170	220	RS	SOR		
Category 6	120	170	220	RS	AH	SOR	220 $\leftrightarrow$ AH
Categories 7 - 9	120	170	220	RS	AH	SOR	

- Choose the bellows option for a non-walkable casing solution.



- Cable carriers (CC) are available in 3 inside widths: 120, 170, and 220 mm.
- CCs may be installed in 3 positions: on the Rack Side (RS) of the beam, the Side Opposite the Rack (SOR), or on the beam Above the Housing (AH).

# CONFIGURATEUR

Effective travel	<input type="text" value="5000"/>	mm	
Beam dimensions (W x H x L)	400 x 200 x 6500	mm	
Rack precision <i>Standard: Quality 8</i>	+/- 0.305	mm	
Repeatability <i>Standard: Quality 8</i>	One-way +/- 0.05 Two-way +/- 0.187	mm	
Quality	Standard (Q8) <input checked="" type="checkbox"/>	Superior (Q6) <input type="checkbox"/>	

Selected by default.

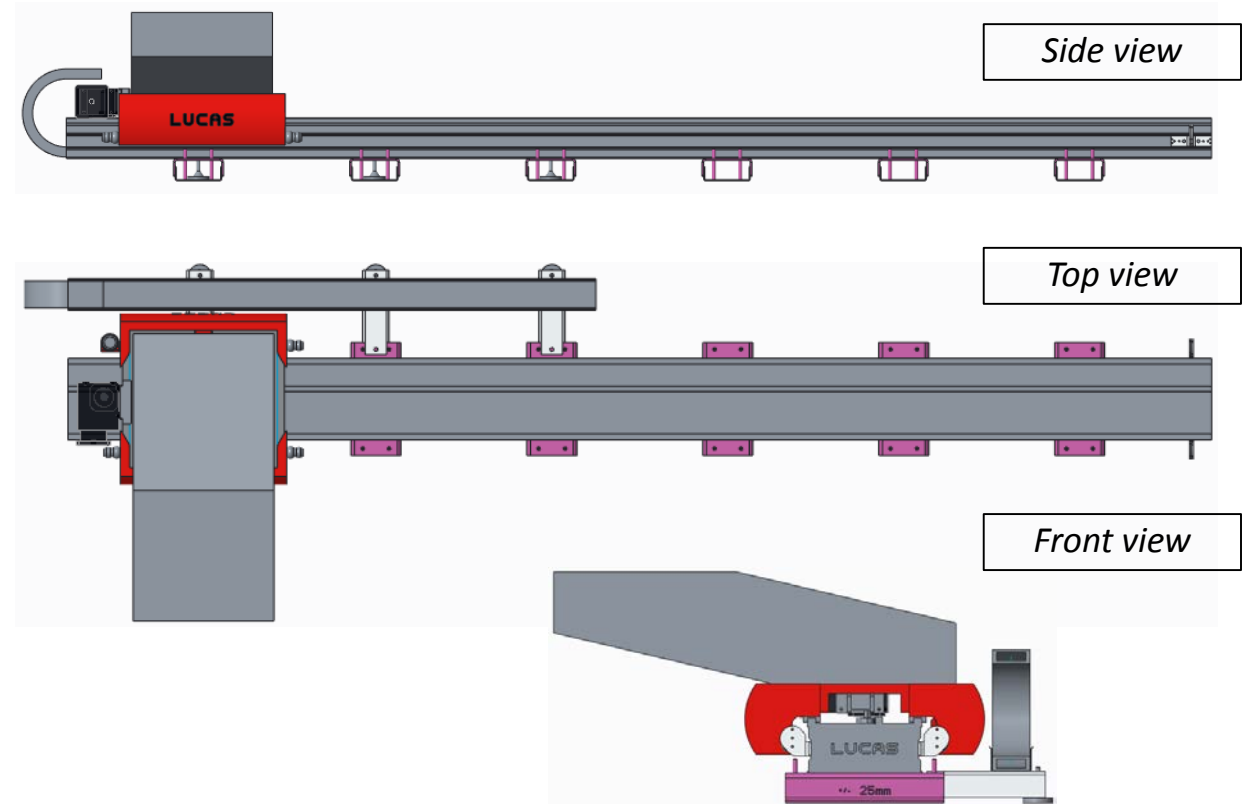
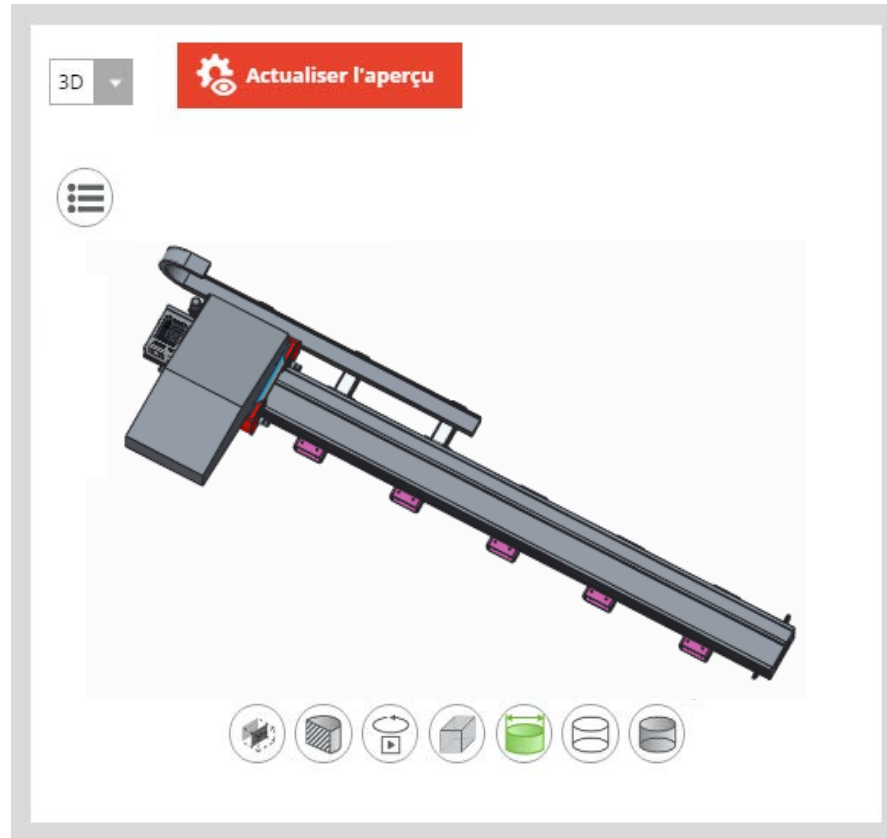
- Once the effective travel has been entered, the length of the beam is calculated on the basis of the category and options:
  - 1 or 2 trolleys;
  - With or without bellows option.
- Precision is calculated according to the effective travel entered.
- The precision and two-way repeatability depend on the category and quality required, (see table at bottom of slide).
- The one-way repeatability value is invariable (+/- 0.05 mm).

	Precision (mm)		Two-way repeatability (mm)	
	Q8	Q6	Q8	Q6
<b>Categories 1-3 (Module 3)</b>	+/- ((0.04 x travel (m)) + 0.105)	+/- ((0.02 x travel (m)) + 0.047)	+/- 0.187	+/- 0.129
<b>Categories 4-9 (Module 4)</b>	+/- ((0.045 x travel (m)) + 0.125)	+/- ((0.023 x travel (m)) + 0.054)	+/- 0.221	+/- 0.149

Beam straightness	+/- 0.1	mm/m	
Number of fastenings	6		
Trolley position	<input type="text" value="1500"/>	mm	
Max trolley speed	<input type="text" value="2.0"/>	m/s	
<i>For speeds &gt; 2 m/s, please contact LUCAS directly</i>			

- Beam straightness is another technical specification of the configured system.
- The trolley position parameter is simply used to position the trolley at a certain distance from its starting point to display it better.
- The speeds proposed in the configuration tool go up to 2 m/s (in 0.5 m/s increments). The maximum speed is used as a basis for LUCAS system calculations.

# View of the corresponding 3D model



# Finalising the configuration

- The last step is to enter the client's business email address and accept the license agreement to access the download.

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2D 3D

3D Studio MAX (3D)  
 Allplan 2008 (2D)  
 Allplan 2008 (3D)  
 ASCON C3D (3D)  
 AutoCAD >=V14 (3D)  
 Autodesk Revit >=2013 (3D)

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LUCAS
AXES DE TRANSLATION TRACK  
ROBOT AU SOL STRASSER

FAB (Fabricants)	COMAU
ROBOTS (Choix du robot)	SIX
DEPCHASSEV (Déport de la chaise verticale / mm)	0
DEPCHASSEH (Déport de la chaise horizontale / mm)	0
CATEGORIE (Catégorie)	Catégorie 2
INFORMATION (Information configuration robot)	Configuration possible.
POSCHAINE (Position de la chaîne)	Avant - Droite
PRECCREM (Précision de la crémaillère / mm)	0.1
COURSE (Course / mm)	3937
POUTRE (Dimensions de la poutre (BxHxL) / mm)	350x200x5500
NBPIED (Nombre de pieds)	11
ENTRAXEPID (Entraxe entre les pieds / mm)	500
ENTRAXECOR (Entraxe des pieds corrigé / mm)	500
BC (Largeur de chaîne / mm)	125
POSCHA1 (Position Chariot 1 / mm)	0
VITRED (Vitesse max du chariot / m/s)	0.5
REDUCTEUR (Choix du réducteur)	ZV318S_PS...
CHARIOT (Dimensions du chariot (BxL) / mm)	600x800
REFPATIN (Référence type de patin)	35N
NBPATINS (Nombre de patins par rails)	4

- The model may be downloaded in 2D or 3D in several different versions, together with the technical specifications (available in PDF format), to provide a summary, and the parts list for the components in the configured system.